UNION CARBIDE CORPORATION
SILICONES AND URETHANE INTERMEDIATES
P. O. BOX 380, SISTERSVILLE, WEST VIRGINIA 26175

SISTERSVILLE SILICONES PLANT 1955 - 1980

December 10, 1980

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Subject: Buried Waste Area - Site II Soil Analyses

Soil samples collected during the installation of testing wells at the Buried Waste Area Site II, at the north end of the Sistersville Plant, have been analyzed for toxic metals as well as total and total Organic Carbon contents.

The results are displayed in Table I, which also indicates which test well and at what depth (height above mean sea level) the soil samples were taken. A section of Drawing 879165 (Figure I) shows the locations of the wells in the north area of the plant.

It had been previously concluded that Locations No. 2 and No. 6 were the most likely to be heavily contaminated - No. 2 because it was directly down slope from the buried waste area and No. 6 because it was so close to the buried waste itself. The Copper, Nickel, Zinc and TOC and TC results tend to bolster that conclusion. Even so, the absolute values themselves are no larger than the soil samples taken at the south end of the plant. The somewhat lower values obtained for samples from No. 4 and No. 5 would tend to indicate the probable limits of migration of material over the past 25 years.

It is my judgement that these results indicate that we need have little concern that this buried waste will create an environmental problem for us.

To bolster this conclusion I will have another round of water samples analyzed for all priority pollutants early in 1981.

I will be interested in comments from those listed above regarding these (and other) data and conclusions.

C F Schubert

C.F.Schubert/k

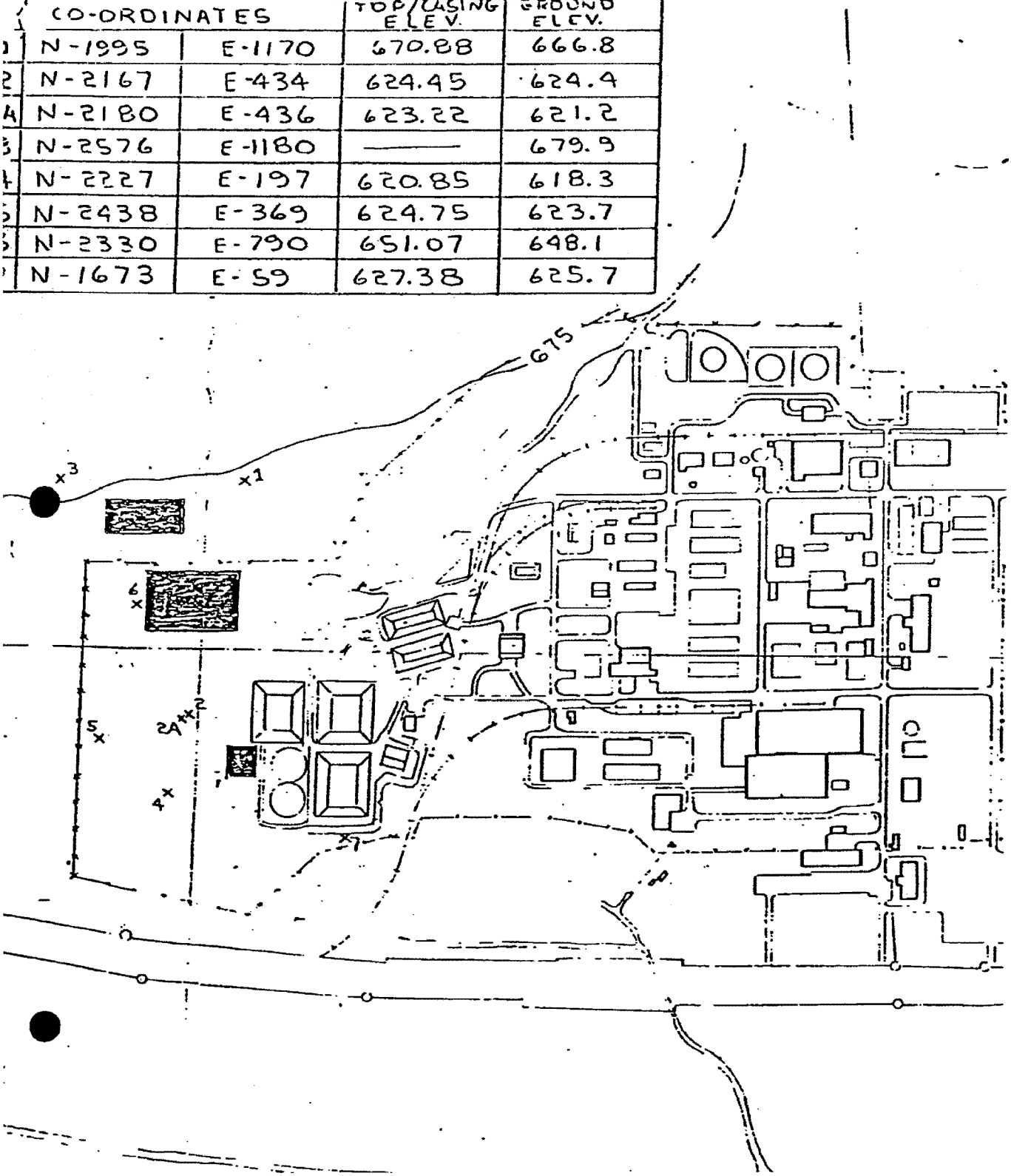
TABLE NO. 1

Well No.		2	4	4	5	6	6	6	7
Ground Elevation (Ft. above mean Sea Level)		624.4	618.3	618.3	623.7	648.1	648.1	648.1	625.7
Sample Depth (Ft. below ground surface)		20.0-21.5	17.5-19.0	25.0-26.5	20.0-21.5	20.0-21.5	30.0-31.5	40.0-41.5	25.0-26.5
Arsenic	ppm	<10	<10	<10	<10	<10	<10	<10	<10
Chromium	ppm	4	<1	<1	3	3	3	3	3
Copper	ppm	16	9	7	13	13	13	11	15
Nickel	ppm	27	6	2	12	9	7	7	11
Zinc	ppm	29	26	22	36	39	29	29	36
TOC*	ppm	8	1	1	0	2	5	13	0
TC*	ppm	10	2	2	1	8	8	15	3

* - On Water Leach of Sample (2 parts water vs. 1 part sample)

Figure 1

WELL LOCATION			
CO-ORDINATES		TOP CASING ELEV.	GROUND ELEV.
N-1995	E-1170	670.88	666.8
N-2167	E-434	624.45	624.4
N-2180	E-436	623.22	621.2
N-2576	E-1180	———	679.9
N-2227	E-197	620.85	618.3
N-2438	E-369	624.75	623.7
N-2330	E-790	651.07	648.1
N-1673	E-59	627.38	625.7



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